

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-76241</b>	
1b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Inland Production Company</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P.O. Box 790233 Vernal, UT 84079</b> Phone: <b>(801) 789-1866</b>		8. FARM OR LEASE NAME <b>Tar Sands Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>NW/SE</b> At proposed Prod. Zone <b>2025' FSL &amp; 1964' FEL</b> <b>617 599</b>		9. WELL NO. <b>#10-28-8-17</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>11.0 Miles southeast of Myton, UT</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>1964'</b>	16. NO. OF ACRES IN LEASE <b>2520</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 28, T8S, R17E</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH <b>6500'</b>	12. County <b>Duchesne</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5204.6' GR</b>		13. STATE <b>UT</b>	
22. APPROX. DATE WORK WILL START* <b>3rd Quarter 1998</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH
Refer to Monument Butte Field SOP's Drilling Program/Casing Design			
QUANTITY OF CEMENT			

**Inland Production Company proposes to drill this well in accordance with the attached exhibits, "A" through "E".**

**The Conditions of Approval are attached.**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Cheryl Cameron* TITLE **Regulatory Compliance Specialist** DATE **3/2/98**  
**Cheryl Cameron**

(This space for Federal or State office use)

PERMIT NO. **43-013-32066** APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: **Federal Approval of this Action is Necessary**

APPROVED BY *Bradley G. Hill* TITLE **BRADLEY G. HILL RECLAMATION SPECIALIST** DATE **4/20/98**

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

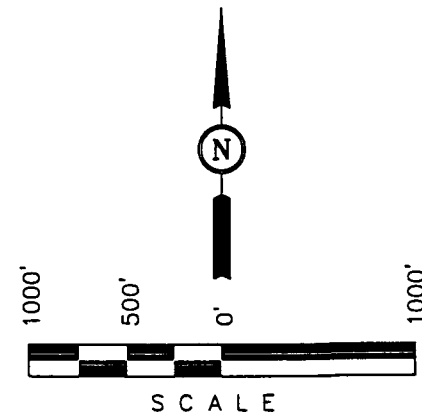
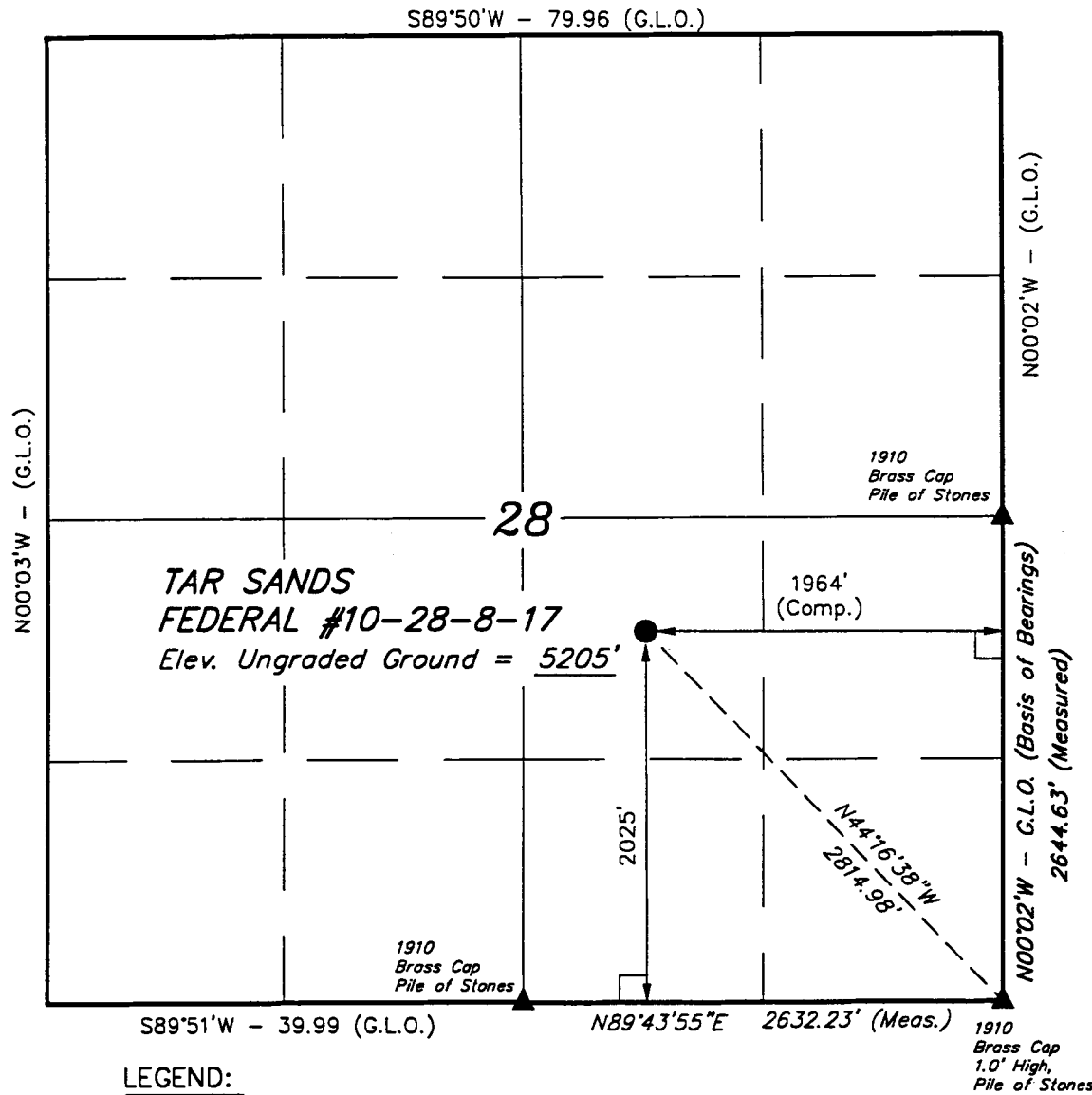
**T8S, R17E, S.L.B.&M.**

**INLAND PRODUCTION CO.**

Well location, TAR SANDS FEDERAL #10-28-8-17, located as shown in the NW 1/4 SE 1/4 of Section 28, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (M86) LOCATED IN THE SW 1/4 OF SECTION 29, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5229 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Hay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**

**85 SOUTH 200 EAST - VERNAL, UTAH 84078**

**(435) 789-1017**

SCALE 1" = 1000'	DATE SURVEYED: 11-14-97	DATE DRAWN: 2-16-98
PARTY B.B. D.R. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE INLAND PRODUCTION CO.	

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #10-28-8-17  
NW/SE SECTION 28, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1855'
Green River	1855'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1855' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "F".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #10-28-8-17  
NW/SE SECTION 28, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Tar Sands Federal #10-28-8-17 located in the NW 1/4 SE 1/4 Section 28, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southerly along this road 6.3 miles  $\pm$  to its junction with a dirt road to the southeast; continue southeasterly 2.1 miles to its junction with a dirt road to the east; proceed easterly 2.1 to its junction with a dirt road to the northeast; proceed northeasterly 0.5 miles to the beginning of the proposed access road.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP. See Exhibit "E".

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). Refer to Exhibit "E".

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION *Archaeological Survey & Pipeline ROW*

The Archaeological Cultural Resource Survey Report is attached.

Inland Production Company requests that a pipeline ROW be granted to the Tar Sands Federal #10-28-8-17 for a 3" poly fuel gas line, and a 4" poly gas gatherline line. Both lines will be run on surface, adjacent to the existing road-way; the route will follow existing roads where possible. Inland requests that a 30' width for the ROW and an additional 30' width for working surface as necessary. Refer to Topographic Map "C".

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron

Address: P.O. Box 790233 Vernal, Utah 84079

Telephone: (435) 789-1866

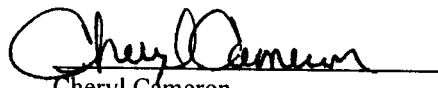
Certification

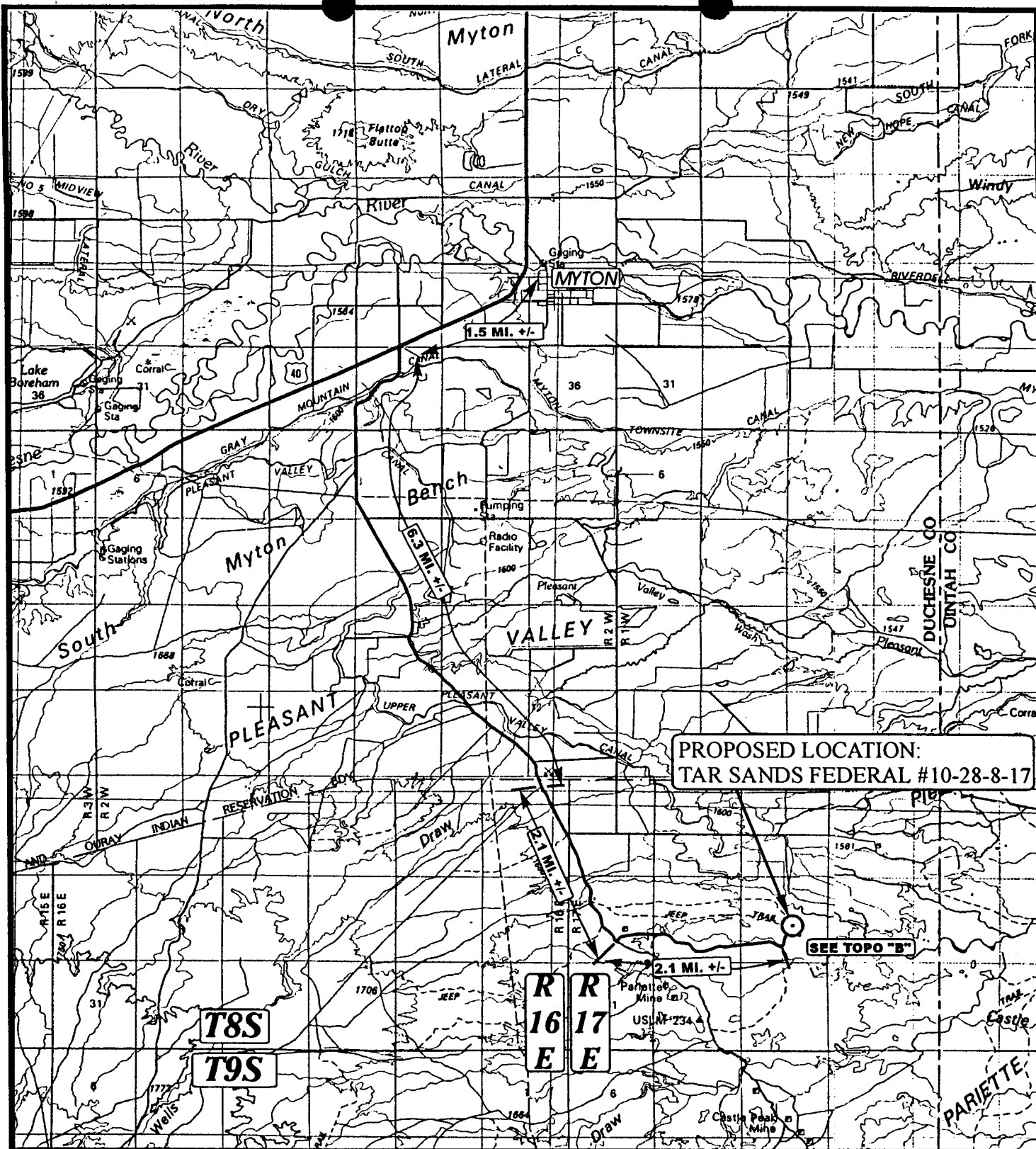
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #10-28-8-17 NW/SE Section 28, Township 8S, Range 17E: Lease U-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/2/98

Date

  
Cheryl Cameron  
Regulatory Compliance Specialist



# LEGEND:

○ PROPOSED LOCATION

N

INLAND PRODUCTION CO.

TAR SANDS FEDERAL #10-28-8-17  
SECTION 28, T8S, R17E, S.L.B.&M.  
2025' FSL 1964' FEL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

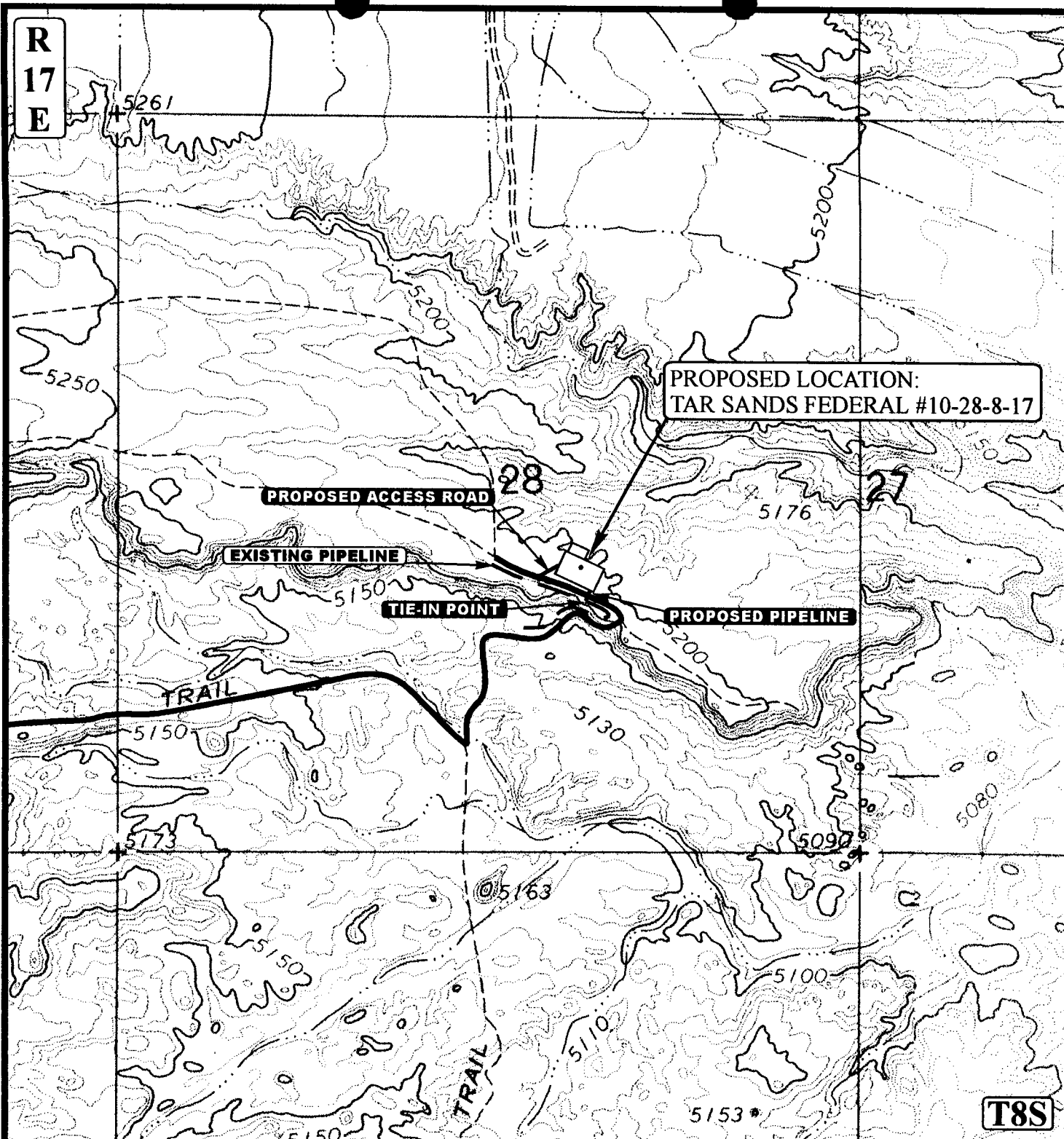
2 12 1998  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00

A  
TOPO



R  
17  
E



APPROXIMATE TOTAL PIPELINE DISTANCE = 200' +/-

**LEGEND:**

- — — — — EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED ACCESS



**INLAND PRODUCTION CO.**

**TAR SANDS FEDERAL #10-28-8-17**  
**SECTION 28, T8S, R17E, S.L.B.&M.**  
**2025' FSL 1964' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**2 12 98**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00





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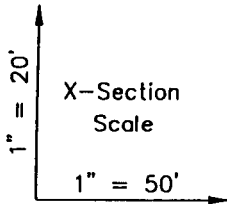
## INLAND PRODUCTION CO.

## TYPICAL CROSS SECTIONS FOR

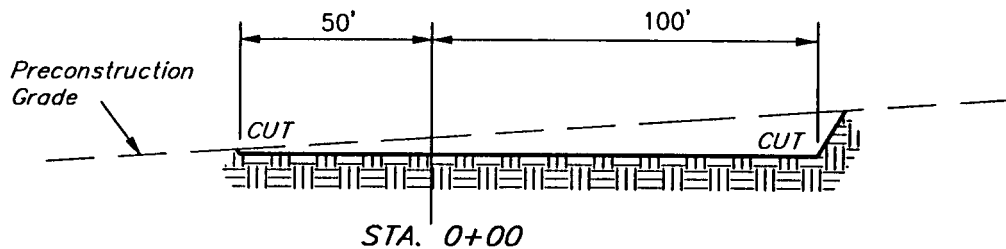
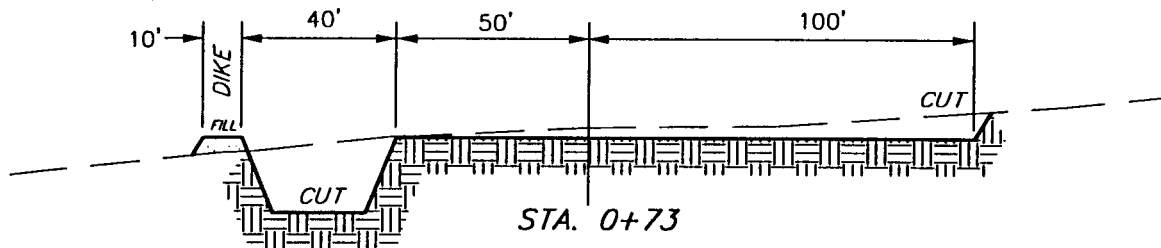
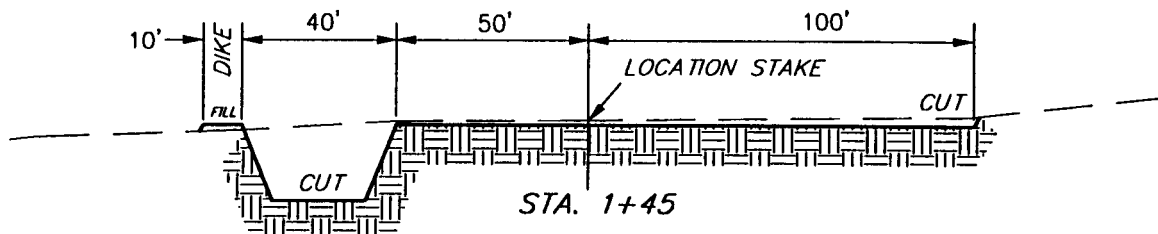
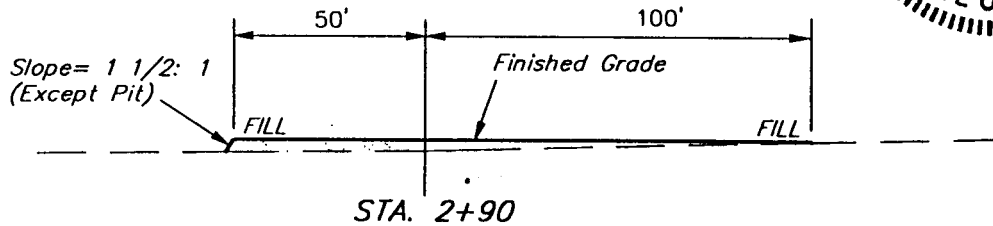
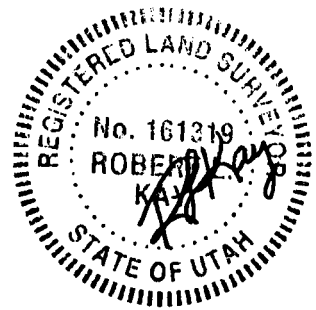
TAR SANDS FEDERAL #10-28-8-17

SECTION 28, T8S, R17E, S.L.B.&amp;M.

2025' FSL 1964' FEL



Date: 2-16-98  
Drawn By: D.COX



## APPROXIMATE YARDAGES

## CUT

(6") Topsoil Stripping = 870 Cu. Yds.

Remaining Location = 1,450 Cu. Yds.

TOTAL CUT = 2,320 CU.YDS.

FILL = 690 CU.YDS.

EXCESS MATERIAL AFTER

5% COMPACTION

= 1,590 Cu. Yds.

Topsoil &amp; Pit Backfill

= 1,200 Cu. Yds.

(1/2 Pit Vol.)

EXCESS MATERIAL After

= 390 Cu. Yds.

Reserve Pit is Backfilled &amp;

Topsoil is Re-distributed

UINTAH ENGINEERING &amp; LAND SURVEYING

85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

Well No.: Tar Sands 10-28-8-17

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands 10-28-8-17

API Number:

Lease Number: ~~UTU-76241~~ <sup>ok</sup>

Location: NWSE Sec. 28, T8S, R17E

**GENERAL**

Access pad from S, off of existing road.

**CULTURAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**PALEONTOLOGICAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**SOILS, WATERSHEDS, AND FLOODPLAINS**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**WILDLIFE AND FISHERIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**BURROWING OWL:** Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and July 15. No new construction or surface disturbing activities will be allowed between April 1 and July 15 within a 0.5 mile radius of any active burrowing owl nest.

## **THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UTAH COUNTIES, UTAH EA NUMBER 1996-61*.

**FERRUGINOUS HAWK:** In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

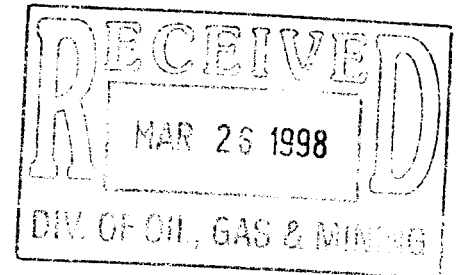
**MOUNTAIN PLOVER:** If new construction or surface disturbing activities are scheduled to occur between March 15 and August 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be completed prior to initiating new construction or surface disturbing activities (see Survey Protocol COAs EA Number 1996-61).

## **OTHER**



March 23, 1998

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078



**ATTENTION: Ed Forsman  
Wayne Bankert**

**RE: Tar Sands Federal Sec. 28 & 29, T8S, R17E  
Tar Sands Federal 7-28, 8-28, 9-28, 10-28, 14-28  
Tar Sands Federal 2-29, 3-29, 4-29, 5-29, 6-29, 14-29, 15-29**

Gentlemen:

Enclosed are the originals and two copies (each) of the Application For Permit To Drill, for the above referenced locations. Attached to each of the original hard copies, is a copy of the Cultural Resource Block Survey for Sections 28 and 29; the hard copy originals have been previously mailed to Blaine Phillips, for his review.

Please contact me in the Vernal Branch office (801) 789-1866, if you have any questions, or need additional information.

Sincerely,

Cheryl Cameron  
Regulatory Compliance Specialist

State of Utah  
Division of Oil Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/26/98

API NO. ASSIGNED: 43-013-32066

WELL NAME: TAR SANDS FED 10-28-8-17  
OPERATOR: INLAND PRODUCTION COMPANY (N5160)  
CONTACT: Cheryl Cameron (435) 789-1866

PROPOSED LOCATION:  
NWSE 28 - T08S - R17E  
SURFACE: 2025-FSL-1964-FEL  
BOTTOM: 2025-FSL-1964-FEL  
DUCHESNE COUNTY  
UNDESIGNATED FIELD (002)

LEASE TYPE: FED  
LEASE NUMBER: U-76241  
SURFACE OWNER: BLM

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(No. #4488944)  
☐ Potash (Y/N)  
☐ Oil Shale (Y/N) \*190-5(B)  
☒ Water Permit  
(No. Johnson Water District)  
☐ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)  
☐ St/Fee Surf Agreement (Y/N)

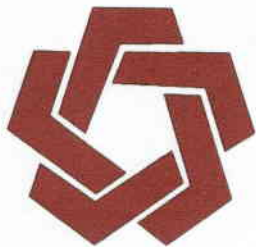
LOCATION AND SITING:

☒ R649-2-3. Unit Greater Boundary  
☐ R649-3-2. General  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS: \* Standard Operating Practices (SOP) separate file.  
\* Unit approved 4-8-98, Cause No. 225-2.

STIPULATIONS: ① FEDERAL APPROVAL





DIVISION OF OIL, GAS & MINING

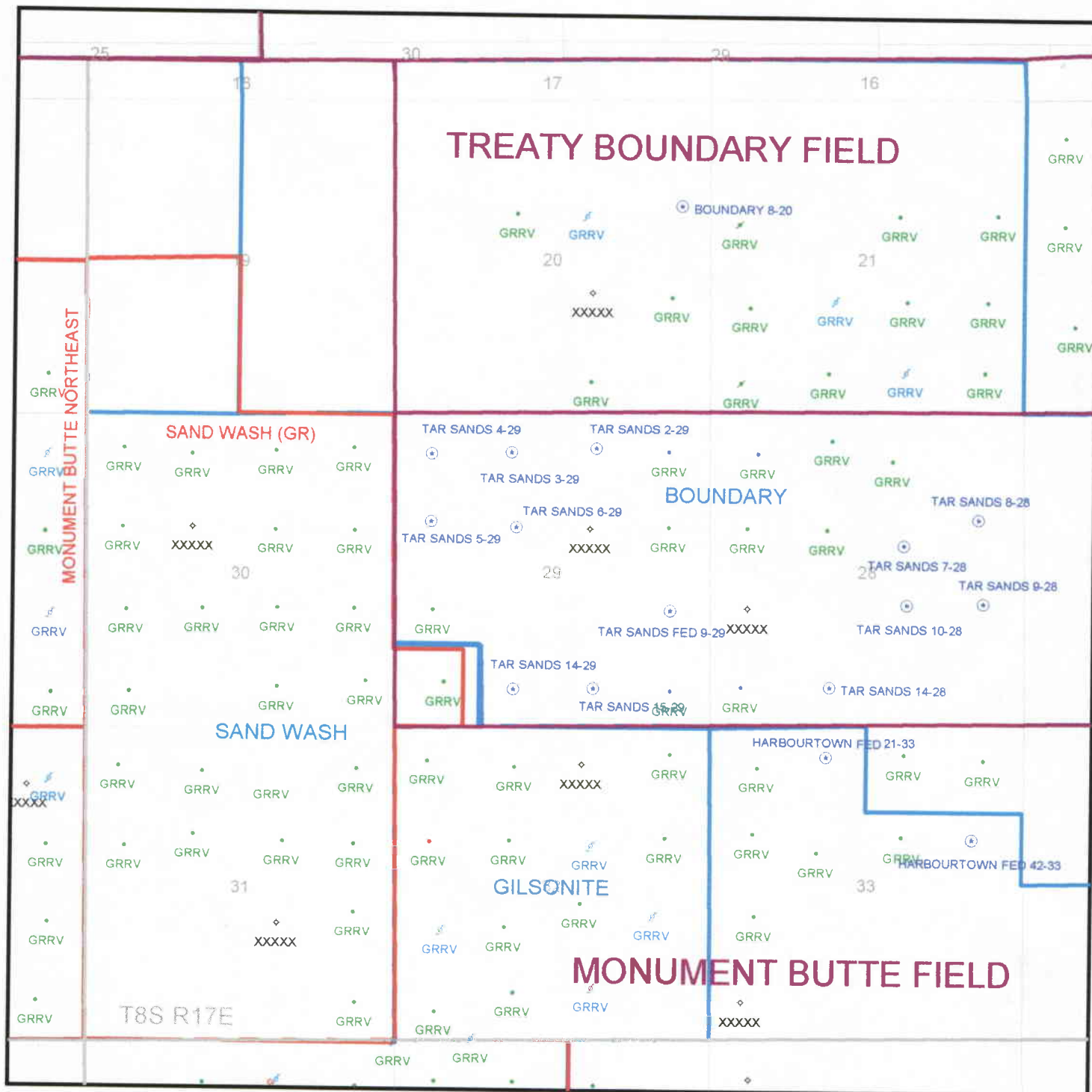
OPERATOR: INLAND PRODUCTION (N5160)

FIELD: UNDESIGNATED (002)

SEC. 28 & 29, TWP. 8S, RNG. 17E,

COUNTY: DUCHESNE UAC: ~~R649-2-3~~ BOUNDARY SECONDARY

N/A



DATE PREPARED:  
30-MAR-1998



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

April 20, 1998

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079

Re: Tar Sands Federal 10-28-8-17 Well, 2025' FSL, 1964' FEL, NW  
SE, Sec. 28, T. 08 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32066.

Sincerely,

John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Inland Production Company  
Well Name & Number: Tar Sands Federal 10-28-8-17  
API Number: 43-013-32066  
Lease: U-76241  
Location: NW SE Sec. 28 T. 08 S. R. 17 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or John R. Baza at (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supercede the required federal approval which must be obtained prior to drilling.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-76241</b>
1b. TYPE OF WELL <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>SINGLE</b> <input type="checkbox"/> <b>MULTIPLE</b> <input type="checkbox"/> <b>WELL</b> <input checked="" type="checkbox"/> <b>WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>ZONE</b> <input type="checkbox"/> <b>ZONE</b> <input type="checkbox"/>		6. IF INDIAN, ALOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <b>Inland Production Company</b>		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR <b>P.O. Box 790233 Vernal, UT 84079</b> <b>Phone: (801) 789-1866</b>		8. FARM OR LEASE NAME <b>Tar Sands Federal</b>
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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>11.0 Miles southeast of Myton, UT</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>1964'</b>	16. NO. OF ACRES IN LEASE <b>2520</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 28, T8S, R17E</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>6500'</b>	19. PROPOSED DEPTH <b>6500'</b>	12. County <b>Duchesne</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5204.6' GR</b>		13. STATE <b>UT</b>
22. APPROX. DATE WORK WILL START* <b>3rd Quarter 1998</b>		

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

**Inland Production Company proposes to drill this well in accordance with the attached exhibits, "A" through "E".**

**The Conditions of Approval are attached.**

**RECEIVED  
MAR 23 1998**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Cheryl Cameron* TITLE **Regulatory Compliance Specialist** DATE **3/2/98**  
**Cheryl Cameron**

(This space for Federal or State office use)

PERMIT NO. **NOTICE OF APPROVAL** APPROVAL DATE

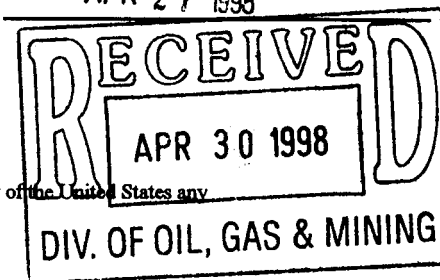
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *Jerry Fennell* TITLE **ACTING Assistant Field Manager Mineral Resources** DATE

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Federal 10-28-8-17

API Number: 43-013-32066

Lease Number: U -76241

Location: NWSE Sec. 28 T. 8S R. 17E

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone.

**SURFACE USE PROGRAM**  
Conditions of Approval (COA)

**Location Reclamation**

The following seed mixture will be used on the stock piled topsoil, reclamation of the reserve pit, and for final reclamation: (All poundages are in Pure Live Seed)

needle and threadgrass	Stipa comata	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
fourwing saltbush	Atriplex canescens	4 lbs/acre
western wheatgrass	Agropyron smithii	2 lbs/acre

The location topsoil pile shall be seeded immediately after site construction by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed.

The reserve pit shall have a small amount of topsoil stock piled near by as shown on the cut sheet to be used to spread over the reserve pit area at the time the reserve pit is reclaimed.

Once the reserve pit is dry, it shall be filled, recontoured, topsoil spread, and seeded in the same manner discussed above.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: TAR SANDS FEDERAL 10-28-8-17

Api No. 43-013-32066

Section 28 Township 8S Range 17E County DUCHESNE

Drilling Contractor

Rig #

SPUDDED:

Date 6/25/98

Time

How DRY HOLE

Drilling will commence

Reported by MIKE WARD

Telephone #

Date: 6/29/98 Signed: JLT

1



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025 FSL 1964 FEL NW/SE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

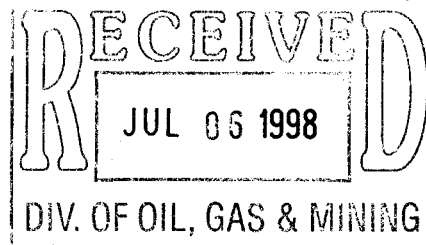
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Surface Spud**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MIRU ZCM Drilling. Drl 12-1/4" sfc hole to 315'. **SPUD WELL @ 10:00 AM, 6/24/98.** C&C. LD DP & Hammer. Run 8-5/8" GS, 7 jt 8-5/8", 24#, J-55, ST & C csg (288'). Csg set @ 288'. RU BJ. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/120 sx Class "G" w/2% CC, 2% gel & 1/4#/sk Cello Flake (14.8 ppg 1.35 cf/sk yield). Had 6 bbl cmt returns. RD BJ. RDMO. (Will return to drill MH & RH after TSF 9-28). Drl MH & RH for Big A #46. RDMOL.



14. I hereby certify that the foregoing is true and correct.

Signed

Shannon Smith

Title

Engineering Secretary

Date

7/2/98

(This space for Federal or State office use)

Approved by

Title

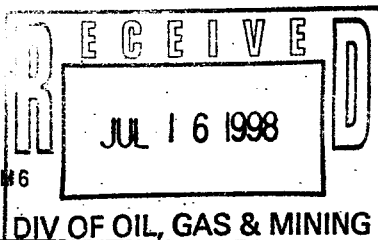
Date

Conditions of approval, if any:

**CC: UTAH DOGM**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6



OPERATOR Inland Production Company  
ADDRESS 410 17th St., Suite 700  
Denver, Colorado 80202

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32066	TAR SANDS FED. 10-28-8-17	NE/SE	28	08S	17E	Duchesne	6/24/98	

WELL 1 COMMENTS: Spud well w/ 2cm Drilling @ 10:00 a.m., 6/24/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32067	TAR SANDS FED. 9-28-8-17	NE/SE	28	08S	17E	Duchesne	6/25/98	

WELL 2 COMMENTS: Spud well w/ 2cm Drilling @ 1:30 pm 6/25/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12420	43-047-33076	ODEKIRK SPRING 13-36-8-17	SW/SE	36	08S	17E	Uintah	7/1/98	

WELL 3 COMMENTS: Spud well w/ Union, Rig #7 @ 2:00 pm., 7/1/98.  
Entity added 7-17-98. See

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32065	TAR SANDS FED. 14-28-8-17	SE/SW	28	08S	17E	Duchesne	6/30/98	

WELL 4 COMMENTS: Spud well w/ 2cm Drilling @ 11:00 AM, 6/30/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12421	43-047-33075	ODEKIRK SPRING 14-36-8-17	SE/SW	36	08S	17E	Uintah	7/1/98	

WELL 5 COMMENTS: Spud well w/ Union #7 @ 11:00 pm, 7/1/98.  
Entity added 7-17-98. See

ON CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Shannon Smith  
Signature

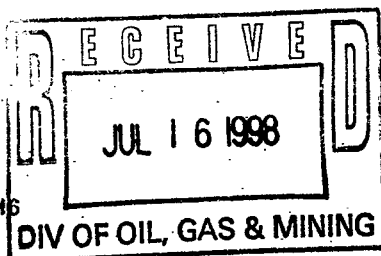
Engineering Secretary

Title

7/15/98  
Date

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 16



OPERATOR Inland Production Company  
ADDRESS 410 17th St., Suite 700  
Denver, Colorado 80202

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32069	Tar Sands Fed 7-28-8-17	SW/NE	28	08S	17E	Duchesne	6/22/98	

WELL 1 COMMENTS: Spud well w/ zcm drilling @ 9:00 am, 6/22/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12422	43-047-33078	ODELIER SPRING 7-36-8-17	SW/NE	36	08S	17E	Uintah	6/15/98	

WELL 2 COMMENTS: Spud well w/ Union, Rig #7 @ 11:30 am, 6/15/98.  
Entity added 7-17-98. f.c.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32063	TAR SANDS FED 3-29-8-17	NE/NO	29	08S	17E	Duchesne	6/15/98	

WELL 3 COMMENTS: Spud well w/ zcm drilling @ 11:00 am, 6/15/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12423	43-047-33077	ODELIER SPRING 11-36-8-17	NE/SW	36	08S	17E	Uintah	6/23/98	

WELL 4 COMMENTS: Spud well w/ Union #7 @ 11:00 am, 6/23/98.  
Entity added 7-17-98. f.c.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Shannon Smith  
Signature

Engineering Secretary 7/15/98  
Title Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025 FSL 1964 FEL**

**NW/SE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice

**TYPE OF ACTION**



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

**Weekly Status**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

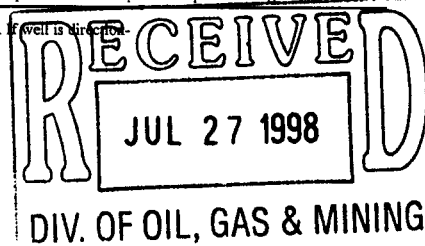
(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is already drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/9/98 - 7/15/98**

Drilled 7-7/8" hole w/Big A #46 from 315' - 6150'.

MIRU. NU. Test BOP's. PU BHA. Drl plug, cmt & GS. Spud rotary rig @ 7:30 pm, 7/8/98. Run 5-1/2" GS, 5 jt 5-1/2" csg (42'), 5-1/2" FC, 144 jt 5-1/2", 15.5#, J-55, LT & C csg (6128'). Csg set @ 6139'. RD Casers. RU BJ. Circ gas out of hole. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/375 sx Premium Lite & additives (11.0 ppg 3.42 cf/sk yield) & 400 sx Class "G" w/10% A-10 & 10% salt (14.4 ppg 1.63 cf/sk yield). Good returns until 95 bbl of 148 displaced, then lost 75% returns. Dropped rate 7 BPM to 3-1/2 and regained 90% returns until 137 bbl displaced, then lost all returns until POB w/2300 psi @ 8:30 pm, 7/13/98. RD BJ. Rig released @ 12:30 am, 7/14/98. RDMOL.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

7/22/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒

Oil  
Well

☐

Gas  
Well

☐

Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025 FSL 1964 FEL**

**NW/SE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

**TYPE OF ACTION**

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other Weekly Status

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

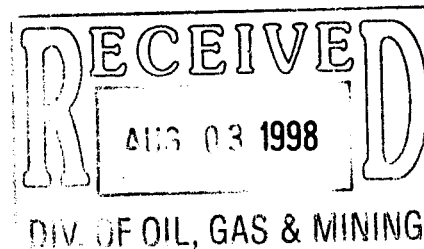
(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-  
ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/23/98 - 7/29/98**

Perf CP sds @ 5906-17' & 5922-27'.

Perf A sds @ 5565-82'.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

7/30/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

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or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025 FSL 1964 FEL NW/SE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

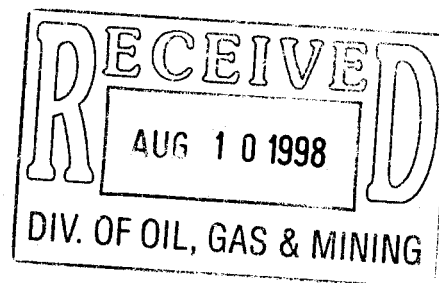
**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/30/98 - 8/5/98**

Perf B sds @ 5417-26'.

Perf C sds @ 5207-20'.

Perf D sds @ 5038-40', 5048-52' & 5103-06'.

Perf GB sds @ 4502-11' & 4589-98'.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

8/6/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 8-28-8-17**

9. API Well No.

**43-013-32068**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1835 FNL 784 FEL SE/NE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/30/98 - 8/5/98**

Drilled 7-7/8" hole w/Big A, Rig #46 from 1072' - 6200'.

Run 5-1/2" GS, 1 jt 5-1/2" csg (42'), 5-1/5" FC, 145 jt 5-1/2", 15.5#, J-55, LT & C csg (6175'). Csg Set @ 6186'. RD Casers. RU BJ. Circ gas out of hole. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/350 sx Premium Lite Mod (11.0 ppg 3.42 cf/sk yield) & 410 sx Class "G" w/10% A-10 & 10% salt (14.4 cf/sk yield). Good returns until 122 bbls (146 total) displace 50% returns until POB w/2400 psi, 12:05 am, 8/3/98. Had w/85,000#, dump & clean pits. RD. Rig released @ 4:05 am,

14. I hereby certify that the foregoing is true and correct.

Signed Shannon Smith Title Engineering Se

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

OIL AND GAS	
WBS	
BUK	
SLS	
GLH	
DTS	
1 - DJK	✓
2 - KDP	
MICROFILM	
3	FILE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 8-28-8-17**

9. API Well No.

**43-013-32068**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**1835 FNL 784 FEL SE/NE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

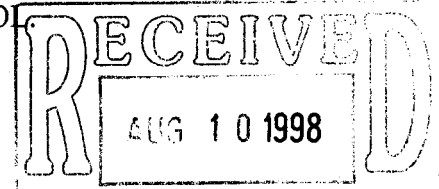
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/30/98 - 8/5/98**

Drilled 7-7/8" hole w/Big A, Rig #46 from 1072' - 6200'.

Run 5-1/2" GS, 1 jt 5-1/2" csg (42'), 5-1/5" FC, 145 jt 5-1/2", 15.5#, J-55, LT & C csg (6175'). Csg Set @ 6186'. RD Casers. RU BJ. Circ gas out of hole. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/350 sx Premium Lite Mod (11.0 ppg 3.42 cf/sk yield) & 410 sx Class "G" w/10% A-10 & 10% salt (14.4 ppg 1.63 cf/sk yield). Good returns until 122 bbls (146 total) displaced. Dropped rate from 5 to 3 BPM & had 30-50% returns until POB w/2400 psi, 12:05 am, 8/3/98. Had tr of gel to sfc. RD. ND BOP's. Set slips w/85,000#, dump & clean pits. RD. Rig released @ 4:05 am, 8/3/98. RDMO



14. I hereby certify that the foregoing is true and correct.

Signed Shannon Smith Title Engineering Secretary

Date 8/6/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well



Oil  
Well



Gas  
Well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025 FSL 1964 FEL**

**NW/SE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**



Notice of Intent



Subsequent Report



Final Abandonment Notice

**TYPE OF ACTION**



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other **Weekly Status**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

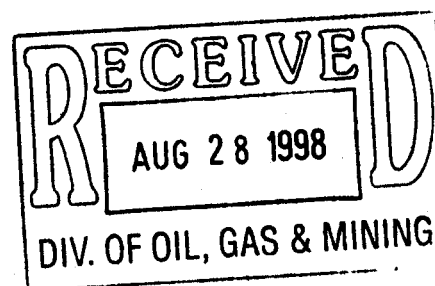
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 8/6/98 - 8/12/98**

Swab well. Trip production tbg.

Repair pumping unit. Place well on production @ 1:00 pm, 8/19/98.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

8/14/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**P O BOX 790233 VERNAL, UT 84079 (435) 789-1866**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2025' FSL & 1964' FEL NW/SE SEC 28, T8S, R17E**

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**TAR SANDS FEDERAL 10-28-8-17**

9. API Well No.

**43-013-32066**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

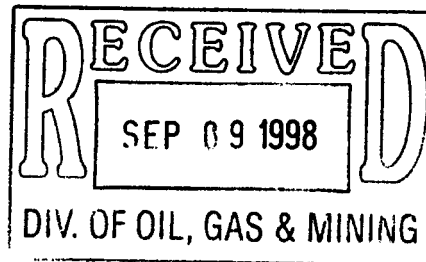
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Reserve Pit Reclamation**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The reserve pit has been backfilled and the topsoil has been spread over the rehabilitated area, in accordance with the Surface Use Program on August 22, 1998. The reserve pit and topsoil stockpile will be seeded per BLM requirements when the seed is available.



14. I hereby certify that the foregoing is true and correct

Signed

*Cheryl Cameron*  
Cheryl Cameron

Title

**Regulatory Specialist**

Date

**9/8/98**

(This space for Federal or State office use)

Approved by

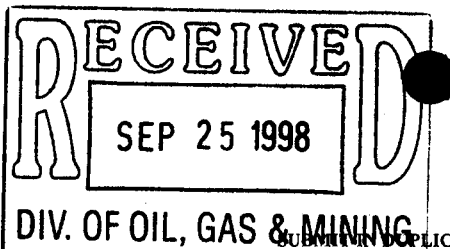
Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

FORM 3160-4  
(July 1992)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*  
(See other in-  
structions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.  
**U-76241**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

**GREATER BOUNDARY**

8. FARM OR LEASE NAME, WELL NO.

**TAR SANDS FEDERAL 10-28-8-17**

9. API WELL NO.

**43-013-32066**

10. FIELD AND POOL OR WILDCAT

**MONUMENT BUTTE**

11. SEC. T., R., M., OR BLOCK AND SURVEY  
OR AREA

**Section 28, T08S R17E**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK

OIL  
WELL ☒

GAS  
WELL ☐

DRY ☐

Other

1b. TYPE OF WELL

NEW  
WELL ☒

WORK  
OVER ☐

DEEPEN ☐

PLUG  
BACK ☐

DIFF  
RESVR. ☐

Other

2. NAME OF OPERATOR

**Inland Production Company**

3. ADDRESS AND TELEPHONE NO.

**475 Seventeenth Street, Suite 1500, Denver, CO 80202 (303) 292-0900**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface

**NW/SE**

**2025 FSL 1964 FE**

At top prod. Interval reported bel

14. PERMIT NO.

**43-013-32066**

15. DATE SPURRED

**6/24/98**

16. DATE T.D. REACHED

**7/13/98**

17. DATE COMPL. (Ready to prod.)

**7/14/98**

20. TOTAL DEPTH, MD & TVD

**6150'**

21. PLUG, BACK T.D., MD & TVD

**6088'**

22. IF MULTIPLE  
HOW MANY\*

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

**Green River 4502' - 5**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**DIGL/SP/GR/CAL, CN/C**

23. CASING RECORD

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)
8 5/8	24#	288'
5 1/2	15.5#	6139'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*

31. PERFORATION RECORD (Interval, size and number)

(See Back Page Number 37)

**CP 5906' - 17'**

**4 SPF**

**44 Holes**

**A 5565' - 82'**

**4 SPF**

**68 Holes**

**B 5417' - 26'**

**4 SPF**

**36 Holes**

**C 5207' - 20'**

**4 SPF**

**52 Holes**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5906' - 5917'	109,021# 20/40 sd in 565 bbls Viking I-25
5565' - 5582'	121,500# 20/40 sd in 586 bbls Viking I-25
5417' - 5426'	111,800# 20/40 sd in 565 bbls Viking I-25
5207' - 5220'	105,400# 20/40 sd in 430 bbls Viking I-25

33.\*

DATE FIRST PRODUCTION **8/20/98** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **Pumping - 2-1/2" x 1-1/2" x 12' x 16 RHAC pump** WELL STATUS (Producing or shut-in) **producing**

DATE OF TEST **10 Day Avg** HOURS TESTED **8/1/98** CHOKER SIZE **N/A** PROD'N. FOR TEST PERIOD **---->** OIL--BBL. **238** GAS--MCF. **377** WATER--BBL. **15** GAS-OIL RATIO **1.584**

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL--BBL. GAS--MCF. WATER--BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

**Sold & Used for Fuel**

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

**Items in #26**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

**Shannon Smith**

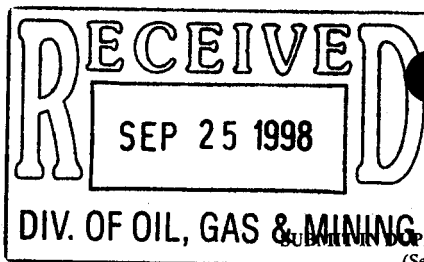
TITLE

**Engineering Technician**

DATE

(See instructions and spaces for additional data on reverse side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



FORM 3160-4  
(July 1992)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMITTING OFFICER\*  
(See other in-  
structions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.  
**U-76241**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

*Inland Production Company*

3. ADDRESS AND TELEPHONE NO.

*475 Seventeenth Street, Suite 1500, Denver, CO 80202 (303) 292-0900*

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface

*NW/SE  
2025 FSL 1964 FEL*

At top prod. Interval reported bel

7. UNIT AGREEMENT NAME

*GREATER BOUNDARY*

8. FARM OR LEASE NAME, WELL NO.

*TAR SANDS FEDERAL 10-28-8-17*

9. API WELL NO.

*43-013-32066*

10. FIELD AND POOL OR WILDCAT

*MONUMENT BUTTE*

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

*Section 28, T08S R17E*

12. COUNTY OR PARISH

*DUCHESNE*

13. STATE

*UT*

15. DATE SPUNDED  
*6/24/98*

16. DATE T.D. REACHED  
*7/13/98*

17. DATE COMPL. (Ready to prod.)  
*7/14/98*

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
*5205' GL 5217' KB*

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

*6150'*

21. PLUG, BACK T.D., MD & TVD

*6088'*

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

*----->*

ROTARY TOOLS

*X*

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

*Green River 4502' - 5582'*

25. WAS DIRECTIONAL SURVEY MADE

*No*

26. TYPE ELECTRIC AND OTHER LOGS RUN

*DIGL/SP/GR/CAL, CN/CD/GR, CBL 9-25-98*

27. WAS WELL CORED

*No*

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
<i>8 5/8</i>	<i>24#</i>	<i>288'</i>	<i>12 1/4</i>	<i>120 sx Class "G"</i>	
<i>5 1/2</i>	<i>15.5#</i>	<i>6139'</i>	<i>7 7/8</i>	<i>375 sx Premium Lite</i>	
				<i>400 sx Glass "G"</i>	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					<i>2-7/8</i>	<i>5938'</i>	<i>1A @ 5873'</i>

31. PERFORATION RECORD (Interval, size and number)  
(See Back Page Number 37)

<i>CP 5906' - 17'</i>	<i>4 SPF</i>	<i>44 Holes</i>
<i>A 5565 - 82'</i>	<i>4 SPF</i>	<i>68 Holes</i>
<i>B 5417-26'</i>	<i>4 SPF</i>	<i>36 Holes</i>
<i>C 5207-20'</i>	<i>4 SPF</i>	<i>52 Holes</i>

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<i>5906' - 5917'</i>	<i>109,021# 20/40 sd in 565 bbls Viking I-25</i>
<i>5565' - 5582'</i>	<i>121,500# 20/40 sd in 586 bbls Viking I-25</i>
<i>5417' - 5426'</i>	<i>111,800# 20/40 sd in 565 bbls Viking I-25</i>
<i>5207' - 5220'</i>	<i>105,400# 20/40 sd in 430 bbls Viking I-25</i>

33.\* PRODUCTION

DATE FIRST PRODUCTION *8/20/98* PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) *Pumping - 2-1/2" x 1-1/2" x 12' x 16 RHAC pump* WELL STATUS (Producing or shut-in) *producing*

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
<i>10 Day Avg</i>	<i>8/1/98</i>	<i>N/A</i>	<i>-----&gt;</i>	<i>238</i>	<i>377</i>	<i>15</i>	<i>1.584</i>

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
		<i>-----&gt;</i>				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

*Sold & Used for Fuel*

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

*Items in #26*

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Shannon Smith*

TITLE *Engineering Technician*

DATE

(See instructions and spaces for additional data on reverse side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		NAME	TOP	
						MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4042'						
Garden Gulch 2	4350'						
Point 3 Mkr	4624'						
X Mkr	4851'						
Y-Mkr	4884'						
Douglas Creek Mkr	5016'						
BiCarbonate Mkr	5263'						
B Limestone Mkr	5444'						
Castle Peak	5861'						
Basal Carbonate	NDE						
Total Depth	6150'						
D 5038-40', 5048-52', 5103-06'	4 SPF	36 Holes	5038' - 5106'	94,700# 20/40 sd in 495 bbls Viking I-25			
GB 4502-11' & 4589-98'	4 SPF	72 Holes	4502' - 4598'	118,000# 20/40 sd in 569 bbls Viking I-25			



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State



ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****GREATER BOUNDARY (GR)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 8-20-8-17	20	080S	170E	4301331993	12391	Federal	OW	S
BOUNDARY 6-21	21	080S	170E	4301331889	12391	Federal	OW	P
TAR SANDS FED 13-28	28	080S	170E	4301331771	12391	Federal	WI	A
TAR SANDS FED 6-28	28	080S	170E	4301331921	12391	Federal	OW	P
TAR SANDS FED 14-28-8-17	28	080S	170E	4301332065	12391	Federal	OW	P
TAR SANDS FED 10-28-8-17	28	080S	170E	4301332066	12391	Federal	OW	P
TAR SANDS FED 1-29	29	080S	170E	4301331743	12391	Federal	WI	A
TAR SANDS FED 16-29	29	080S	170E	4301331871	12391	Federal	OW	P
TAR SANDS FED 8-29	29	080S	170E	4301331922	12391	Federal	OW	P
TAR SANDS FED 12-29	29	080S	170E	4301331924	12391	Federal	OW	P
SAND WASH 9-29-8-17	29	080S	170E	4301331942	12391	Federal	WI	A
TAR SANDS FED 15-29-8-17	29	080S	170E	4301332058	12391	Federal	WI	A
TAR SANDS FED 14-29-8-17	29	080S	170E	4301332059	12391	Federal	OW	P
TAR SANDS FED 6-29-8-17	29	080S	170E	4301332060	12391	Federal	OW	P
TAR SANDS FED 5-29-8-17	29	080S	170E	4301332061	12391	Federal	OW	P
TAR SANDS FED 4-29-8-17	29	080S	170E	4301332062	12391	Federal	OW	P
TAR SANDS FED 3-29-8-17	29	080S	170E	4301332063	12391	Federal	WI	A
TAR SANDS FED 2-29-8-17	29	080S	170E	4301332064	12391	Federal	OW	S
TAR SANDS FED 1-33	33	080S	170E	4301331863	12391	Federal	WI	A
TAR SANDS FED 2-33	33	080S	170E	4301331867	12391	Federal	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005  
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005  
3. Bond information entered in RBDMS on: 2/28/2005  
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005  
5. Injection Projects to new operator in RBDMS on: 2/28/2005  
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919  
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

**1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>**

**SEP 24 2010**

Ref: 8P-W-GW

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

RE: Underground Injection Control (UIC)  
Additional Well Authorization  
Boundary Area Permit  
EPA UIC Permit UT20702-08869  
Well: Tar Sands Federal 10-28-8-17  
NWSE Sec. 28 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32066

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

Dear Mr. Sundberg:

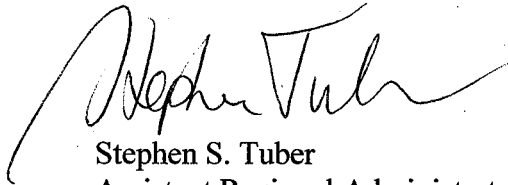
The Environmental Protection Agency (EPA), Region 8, hereby authorizes Newfield Production Company (Newfield) to convert the oil well Tar Sands Federal 10-28-8-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Boundary Area Permit UT20702-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval, and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

**RECEIVED  
OCT 12 2010  
DIV. OF OIL, GAS & MINING**

If you have any questions, please call Tom Aalto at (303) 312-6949 or 1-(800)-227-8917 (Ext. 312-6949). Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
EPA-Annotated Wellbore and P&A Diagrams

cc Letter Only:

Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman  
Phillip Chimburas, Councilman  
Frances Poowegup, Vice-Chairwoman  
Richard Jenks, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET

DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

### UIC Area Permit UT20702-00000

The Boundary Unit Final Underground Injection Control (UIC) Area Permit UT20702-00000, effective February 8, 1994, authorizes injection for the purpose of enhanced oil recovery in the Boundary Unit. On July 26, 2010, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	<b>Tar Sands Federal 10-28-8-17</b>
EPA Permit ID Number:	<b>UT20702-08869</b>
Location:	2,025' FSL & 1,964' FWL NWSE Sec. 28 T8S-R17E Duchesne County, Utah API #43-013-32066

Pursuant to 40 CFR §144.33, Area UIC Permit UT20702-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit UT20702-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: SEP 24 2010

**Stephen S. Tuber**

\* Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

Authorization for Additional Well: UIC Area Permit UT20702-00000

Well: Tar Sands Federal 10-28-8-17 EPA Well ID: UT20702-08869

Printed on Recycled Paper

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: **Tar Sands Federal 10-28-8-17**

EPA Well ID Number: **UT20702-08869**

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone; and
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. A successful RTS will be considered valid at injection pressures up to the Maximum Allowable Injection Pressure (MAIP) until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA,
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*),
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive,
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, that may affect the cement integrity of the well,
- e) If the Director requests that a RTS be run for any reason.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Zone:** The approved injection zone for this well is from the top of Green River Formation, Garden Gulch 2 Member, to the top of the Wasatch Formation. The approved injection zone depth interval for this well is: 4,350 ft. – 6,540 ft.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP for this well is **1,390** psig. The initial MAIP is based on the following calculation:

$$\begin{aligned}\text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * D, \text{ where} \\ \text{FG} &= 0.749 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad D = 4,502 \text{ ft. (top perforation depth)} \\ \text{Initial MAIP} &= 1,390 \text{ psig}\end{aligned}$$

FG = Fracture Gradient      SG = Specific Gravity of Injectate (Maximum)



The UIC Area Permit provides the opportunity for the permittee to request a change of the initial MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the Cement Bond Log (CBL), have not satisfactorily demonstrated the presence of adequate Cement Bond Index (CBI) cement to prevent the migration of injection fluids behind the casing from the injection zone. Therefore, an RTS is being required prior to authorization to inject. An EPA-annotated wellbore diagram is attached.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

**Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of Part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined that there is no 80% Cement Bond Index (CBI) cement in the well across the Confining Zone (Shale "B"). Therefore, further demonstration of Part II (external) Mechanical Integrity is required. A RTS is required to help verify Part II Mechanical Integrity. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the confining zone, by demonstrating the presence or absence of adequate cement to prevent fluid movement behind the casing above the uppermost perforation. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the permit, an extension of the period of Limited Authorization to Inject may be requested. A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a temperature log, oxygen activation log, or noise log at a frequency no less than once every five years.

**Demonstration of Financial Responsibility:** At the time of issuance of this Authorization for Additional Well UIC Permit, the Environmental Protection Agency Region 8 (EPA) has identified deficiencies in Newfield Production Company's (Newfield) Financial Statement submitted on June 10, 2010, as a demonstration of the company's ability to plug and abandon all Newfield injection wells permitted by EPA. EPA's Office of Enforcement, Compliance and Environmental Justice (ECEJ) is taking action to correct any deficiencies. EPA's Office of Partnerships and Regulatory Assistance (OPRA), the division responsible for issuing all UIC permits, has determined that these deficiencies in Financial Responsibility do not represent an imminent endangerment to underground sources of drinking water in the Monument Butte Field and that the issuance of UIC permits to Newfield should continue while ECEJ works with

Newfield to correct any deficiencies. In the event that Newfield is unable to return to full compliance on Financial Responsibility within a reasonable period of time, OPRA may stop the issuance of new UIC permits to Newfield until Newfield fully demonstrates Financial Responsibility for all Newfield injection wells currently operating under EPA UIC permits.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- Plug No. 1: Set a cast iron bridge plug (CIBP) 50 ft. above the top injection zone perforations (at the time of this authorization, the top perforation is at 4,502 ft.). Set 100 ft. cement plug on top of the CIBP.
- Plug No. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona /Bird's Nest interval and the Mahogany Bench oil shale in a 177-foot cement plug from 3,146 ft. to 3,323 ft. unless pre-existing backside cement precludes cement-squeezing this interval. Set a 177-foot cement plug inside the 5-1/2" casing from 3,146 ft. to 3,323 ft.
- Plug No. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,697 ft., in a 120-foot cement plug from 1,637 ft. to 1,757 ft., unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2" casing from 1,637 ft. to 1,757 ft.
- Plug No. 4: Perforate 5-1/2" casing at 338 ft. and squeeze cement up the 5-1/2"x 8-5/8" casing annulus to the surface, unless pre-existing backside cement precludes cement-squeezing this interval. Set a cement plug within the 5-1/2" casing from a depth of 338 ft. to the surface.

An EPA-annotated wellbore Plugging and Abandonment Plan diagram is attached.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Tar Sands Federal 10-28-8-17**

EPA Well ID Number: **UT20702-08869**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Greater Boundary Unit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 217 ft. in this well.

**Utah Division of Water Rights Information:** According to the state website, <http://utstnrwrt6.waterrights.utah.gov/cgi-bin/wrplat.exe>, there are no known reservoirs, streams, domestic or agricultural water wells within one-quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water:** The Total Dissolved Solids (TDS) content of water produced from the injection zone in the Green River Formation was determined to be 6,556 mg/l on February 19, 2010. Due to nearby injection activities of relatively fresh water for the purpose of enhanced oil recovery, this TDS value is likely not representative of the original TDS content of formation waters at or near this well.

The TDS content of injectate was determined to be 2,897 mg/l on January 5, 2010. The planned injectate is water from the Newfield Injection Facility and consists of culinary water from the Green River supply line or the Johnson Water District supply line blended with produced Green River Formation water.

**Aquifer Exemption:** The TDS of water produced from the proposed injection well is less than 10,000 mg/l. EPA has evaluated additional data and information and concluded that the original Green River formation water at this location was saline prior to enhanced oil recovery water flooding. The weight of evidence supports the conclusion that the occasional water sample from this area showing less than 10,000 mg/l is not representative of original Green River formation water, and is attributed to injection of relatively freshwater during enhanced oil recovery operations. Because this freshening effect from water flood operations is considered by EPA to be a temporary, artificial condition, an aquifer exemption is not required for this proposed injection well.

**Confining Zone:** The UIC Area Permit established Areal Confining Zone (ACZ) (also known as the Administrative Confining Zone) directly overlies the Garden Gulch Member of the Green River Formation. However, an alternative confining zone beneath the ACZ has also been identified and approved by EPA. The alternative confining zone is referred to as Shale "B".

Shale "B": 4,258 ft. to 4,350 ft. Shale "B" is approximately 92 ft. in thickness. There is no 80 percent or greater Cement Bond Index cement across Shale "B". Therefore a Radioactive Tracer Survey will be required prior to authorization to inject. Also, the Permittee proposed in the permit application that the base of Shale "B" (top of the Garden Gulch #2) be used as the bottom

of the confining zone (and top of proposed injection zone) instead of the base of the ACZ. EPA is in agreement with that proposal as it represents a more conservative approach in this case. Therefore, EPA has determined that Shale "B" is the alternate confining zone for this well.

**Injection Zone:** The injection zone for this well is in the Green River Formation from the top of Garden Gulch 2 (base of Shale "B") at 4,350 ft., to the top of the Wasatch Formation at an estimated depth of approximately 6,540 ft. Due to the change in the designated confining zone, the injection zone has been limited to an interval from the base of Shale "B", at a depth of 4,350 ft. (top of Garden Gulch 2) to the top of the Wasatch Formation, at an estimated depth of approximately 6,540 ft. The Permittee proposed in the permit application that the injection zone (interval) be lowered to the top of the Garden Gulch #2 (the base of Shale "B") for this well. EPA is in agreement with that proposal as it represents a more conservative approach in this case. The injection zone at this well location consists of approximately 2,190 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of Formation tops are either submitted by the operator or are based on correlations to the Newfield Monument Butte Type Log.

**Well Construction:** The Cement Bond Log (CBL) for this well does not show any 80% or greater Cement Bond Index (CBI) cement in the confining zone (Shale "B"). EPA Region 8 guidance calls for at least 18-feet of 80 % CBI cement through the confining zone. A further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is therefore being required. A RTS is being required for that purpose.

**Surface Casing:** 8-5/8" casing is set at 288 ft. in a 12-1/4" hole, using 120 sacks of Class "G" Cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,140 ft. in a 7-7/8" hole secured with 375 sacks of Prem. Lite II cement and 400 sacks of Class "C" cement. Plugged back total depth is 6,088 ft. Cement Bond Log (CBL) shows Top of Cement (TOC) is at 970 ft.

**Perforations:** Top perforation: 4,502 ft. Bottom perforation: 5,927 ft.

Additional information concerning the well may be found on the state website:  
<http://oilgas.ogm.utah.gov/>

**Basis for Initial MAIP Calculation:** The initial MAIP was calculated by EPA using the following input values for the fracture gradient and injectate specific gravity:

**Fracture Gradient:** A fracture gradient value of 0.749 psi/ft. was selected by EPA because it is the most conservative fracture gradient for other nearby wells.

**Specific Gravity:** An injectate specific gravity value of 1.015 was selected by EPA because this value is the maximum expected specific gravity of injectate for this well.

**Well Plugging and Abandonment:** As discussed in the EPA Region 8 guidance, wells should be plugged and abandoned in a manner to prevent migration of fluids in the wellbore into or between USDWs. The four (4) cement plugs required for this well are as follows:

Plug No. 1 is required to prevent migration of fluids out of the injection zone. It is believed that there are no USDWs below Plug No. 1.

Plug No. 2 is required because the interval of the Green River Formation, containing the Bird's Nest and Trona Members, is reported to contain USDWs in places in the Uinta Basin, and the Mahogany Bench Member is an oil shale resource that is also being protected under U.S. Bureau of Land Management (BLM) requirements.

Plug No. 3 is required across the Uinta Formation/Green River Formation contact to prevent flow between USDWs.

Plug No. 4 is required to prevent fluids from migrating from the surface or from below into shallow USDWs.

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following six (6) AOR wells that penetrate the area confining zone within or proximate to a one-quarter (1/4) mile radius around the Tar Sands Federal 10-28-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

<b><u>AOR Well</u></b>	<b><u>API Number</u></b>	<b><u>Location</u></b>
<b>Greater Boundary L-28-8-17</b>	43-013-34096	SWNE Sec. 28 T8S R17E
<b>Greater Boundary II M-28-8-17</b>	43-013-34029	NWSE Sec. 28 T8S R17E
<b>Tar Sands Federal 9-28-8-17</b>	43-013-32067	NESE Sec. 28 T8S R17E
<b>Greater Boundary II S-28-8-17</b>	43-013-33976	SWSE Sec. 28 T8S R17E
<b>Tar Sands Federal 15-28-8-17</b>	43-013-32109	SWSE Sec. 28 T8S R17E
<b>Tar Sands Federal 7-28-8-17</b>	43-013-32069	SWNE Sec. 28 T8S R17E

### **No Corrective Action Required for the AOR Wells**

As discussed below, no corrective action is being required for the six (6) AOR wells because:

- 1) the wells are shown to have adequate cement across the Shale "B" confining zone to prevent fluid migration in the wellbores, and/or,
- 2) the well(s) are previously permitted injection wells that have demonstrated Part II Mechanical Integrity.

These points are discussed briefly below for each AOR well:

**Greater Boundary L-28-8-17:** The well is a producing oil well. The CBL shows TOC at 320 ft. There is 80 % CBI cement in Shale "B" in the interval 4,394 ft. to 4,413 ft.

**Greater Boundary II M-28-8-17:** The well is a producing oil well. The CBL shows TOC at 56 ft. There is 80 % CBI cement in Shale "B" in the interval 4,389 ft. to 4,420 ft.

**Tar Sands Federal 9-28-8-17:** The well is a permitted injection well. The CBL shows Top of Cement (TOC) at 390 ft. There is no 80% Cement Bond Index (CBI) cement in Shale "B". However, a RTS was run on February 25, 2010, and was approved by EPA. The RTS demonstrated adequate cement to prevent fluid migration above the injection zone in the wellbore.

**Greater Boundary II S-28-8-17:** The well is a producing oil well. The CBL shows TOC at 90 ft. There is 80 % CBI cement in Shale "B" in the interval 4,289 ft. to 4,313 ft.

**Tar Sands Federal 15-28-8-17:** The well is a permitted injection well. The CBL shows TOC at 400 ft. There is 80 % CBI cement in Shale "B" in the interval 4,148 ft. to 4,184 ft.

**Tar Sands Federal 7-28-8-17:** The well is a permitted injection well. The CBL shows Top of Cement (TOC) at 894 ft. There is no 80% Cement Bond Index (CBI) cement in Shale "B". However, a RTS was run on March 3, 2010, and was approved by EPA. The RTS demonstrated adequate cement to prevent fluid migration above the injection zone in the wellbore.

### **REPORTING REQUIREMENTS**

#### **Reporting of Noncompliance:**

- (a) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted to EPA for review no later than 30 days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC)** at: **1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at: <http://www.nrc.uscg.mil/index.htm>

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

UT20702-08869

## TAR SANDS FED. 10-28-8-17

Tom Alto  
EPA TEA

Spud Date: 06/24/98  
Put on Production: 08/19/98  
GL: 5205' KB: 5217'

Proposed Injection  
Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts.  
DEPTH LANDED: 288.00' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 120 sxs Class "G" cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts (6128')  
DEPTH LANDED: 6139' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 375 sxs Prem. Lite II mixed & 400 sxs Class C  
CEMENT TOP: 970'

MB = Mahogany Bench  
GG = Garden Gulch

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 189 jts (5869.13')  
TUBING ANCHOR: 5883.93' KB  
NO. OF JOINTS: 2 jts (62.47')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5935.50' KB  
NO. OF JOINTS: 1 jts (29.63')  
TOTAL STRING LENGTH: EOT @ 5965.58' KB

Confining  
Zone  
No 80% CBI  
Cement \*\*

\* State of Utah Technical  
Publication # 92.

\*\* An RTS is required.

FRAC JOB

07/24/98 5906-5927' Frac CPl sands as follows:  
109021# 20/40 sand in 565 bbls Viking I-25  
frac fluid. Treated @ avg press of 1300 psi  
w/avg rate of 28.2 BPM. ISIP 1750 psi. Calc  
flush: 5904 gal. Actual flush: 5817 gal.

07/27/98 5565-5582' Frac A sands as follows:  
121500# 20/40 sand in 586 bbl Viking I-25  
frac fluid. Treated @ avg press of 1880 psi  
w/avg rate of 30.3 BPM. ISIP 1980 psi. Calc  
flush: 5563 gal. Actual flush: 5460 gal.

07/31/98 5417-5426' Frac B sands as follows:  
111800# 20/40 sand in 565 bbls Viking I-25  
frac fluid. Treated @ avg press of 1650 psi  
w/avg rate of 24 BPM. With 7# sand @ perfs,  
slurry pumps began pumping extremely  
rough. Maximum rate able to pump was  
reduced to 19 bpm. Pressure began rising  
quickly. 10ppg sand was reached @ blender  
before cutting sand flushed 20 bbls before  
screenout occurred w/9# sand on perfs. Est.  
76,1000# sand on formation, 29,300# sand left  
in casing.

8/3/98 5207-5220' Frac D1 & D2 sands as follows:  
94700# 20/40 sand in 495 bbls Viking I-25  
frac fluid. Treated @ avg press of 2050 psi  
w/avg rate of 30.5 BPM. ISIP 2920 psi. Calc  
flush: 5205 gal. Actual flush: 4939 gal.

8/5/98 5038-5106' Frac GB4 & GB6 sands as follows:  
118,000# 20/40 sand in 569 bbls Viking I-25  
frac fluid. Treated @ avg press of 1750 psi  
w/avg rate of 30.6 BPM. ISIP 2160 psi. Calc  
flush: 5036 gal. Actual flush: 4410 gal.

04/16/02 Pump Change. Updated rod & tubing detail  
07/03/02 Pump Change. Updated rod & tubing detail  
04/16/03 Pump Change. Updated rod & tubing detail  
02/25/05 Pump Change. Updated rod & tubing detail  
08/17/07 Tubing Leak. Updated rod & tubing detail  
2/2/09 Pump Change. Updated r & t details.

07/23/98 5906-5917' 4 JSPF 44 holes  
07/23/98 5922-5927' 4 JSPF 20 holes  
07/25/98 5565-5582' 4 JSPF 68 holes  
07/29/98 5417-5426' 4 JSPF 36 holes  
07/30/98 5207-5220' 4 JSPF 52 holes  
08/01/98 5038-5040' 4 JSPF 08 holes  
08/01/98 5048-5052' 4 JSPF 16 holes  
08/01/98 5103-5106' 4 JSPF 12 holes  
08/04/98 4502-4511' 4 JSPF 36 holes  
08/04/98 4589-4598' 4 JSPF 36 holes

PERFORATION RECORD

Packer @ 4452'  
4502-4511'  
4589-4598'  
5038-5040'  
5048-5052'  
5103-5106'  
5207-5220'  
5417-5426'  
5565-5582'  
5906-5917'  
5922-5927'

-5,016'  
Douglas  
Creek

5,861' Castle Peak

Top of Fill @ 5944'  
PBTD @ 6088'  
SHOE @ 6140'  
TD @ 6150'

-6,420' Basal Carbonate (est.)  
-6,540' Wasatch Fm. (est.)

## NEWFIELD

## TAR SANDS FED. 10-28-8-17

2025 FSL & 1964 FEL  
NW/SE Section 28-T8S-R17E  
Duchesne Co, Utah  
API #43-013-32066; Lease # UTU-76241



UT20702-08869

# TAR SANDS FED. 10-28-8-17

Tom Aalto  
EPA ~~TEA~~

Spud Date: 06/24/98  
Put on Production: 08/19/98

GL:5205' KB:5217'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts.  
DEPTH LANDED: 288.00' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 120 sxs Class "G" cmt, est 6 bbls cmt to surf.

## Proposed P & A Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts. (6128')  
DEPTH LANDED: 6139' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 375 sxs Prem. Lite II mixed & 400 sxs Class C  
CEMENT TOP: 970'

Plug 4

Casing Shoe @ 288'

Circulate 95 sx Class "G" Cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus

Perforate 4 JSPF @ 338'

Cement Top @ 970'

Plug 3

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1637'-1757')

Plug 2

177' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (3146'-3323')

Plug 1

100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 4452'

4502-4511'

4589-4598'

5038-5040'

5048-5052'

5103-5106'

5207-5220'

5417-5426'

5565-5582'

5906-5917'

5922-5927'

Top of Fill @ 5944'

PBTD @ 6088'

SHOE @ 6140'

TD @ 6150'

NEWFIELD

TAR SANDS FED. 10-28-8-17

2025' FSL & 1964' FEL

NW/SE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32066; Lease # UTU-76241

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76241
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY				6. IF INDIAN, ALLOTTEE OR TRIBE NAME: GMBU
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		PHONE NUMBER 435.646.3721	7. UNIT or CA AGREEMENT NAME: TAR SANDS FED 10-28-8-17	
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2025 FSL 1964 FEL				8. WELL NAME and NUMBER: GREATER MB UNIT
OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE, 28, T8S, R17E				9. API NUMBER: 4301332066
				10. FIELD AND POOL, OR WILDCAT: COUNTY: DUCHESNE STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 03/07/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 02/09/2011.

On 02/10/2011 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/07/2011 the casing was pressured up to 1215 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-08869 API# 43-013-32066

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE

DATE 03/09/2011

(This space for State use only)

RECEIVED

MAR 14 2011

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2025 FSL 1964 FEL  
NWSE Section 28 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

TAR SANDS FED 10-28-8-17

9. API Well No.

4301332066

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status _____	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 02/09/2011.

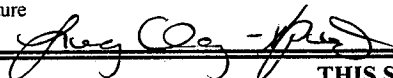
On 02/10/2011 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/07/2011 the casing was pressured up to 1215 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-08869 API# 43-013-32066

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature



Title

Water Services Technician

Date

03/09/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**  
**MAR 14 2011**

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 3 / 7 / 11  
Test conducted by: Austin Harrison  
Others present: \_\_\_\_\_

Well Name: <u>Tee Sands Federal 10-28-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>10</u> Sec: <u>28</u> T <u>8</u> N <u>(S)</u> R <u>17</u> <u>(E)</u> W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Newfield Production Co.</u>		
Last MIT: <u>  </u> / <u>  </u> / <u>  </u>		Maximum Allowable Pressure: <u>  </u> PSIG

Is this a regularly scheduled test? ☐ Yes ☒ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1215</u> psig	psig	psig
5 minutes	<u>1215</u> psig	psig	psig
10 minutes	<u>1215</u> psig	psig	psig
15 minutes	<u>1215</u> psig	psig	psig
20 minutes	<u>1215</u> psig	psig	psig
25 minutes	<u>1215</u> psig	psig	psig
30 minutes	<u>1215</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

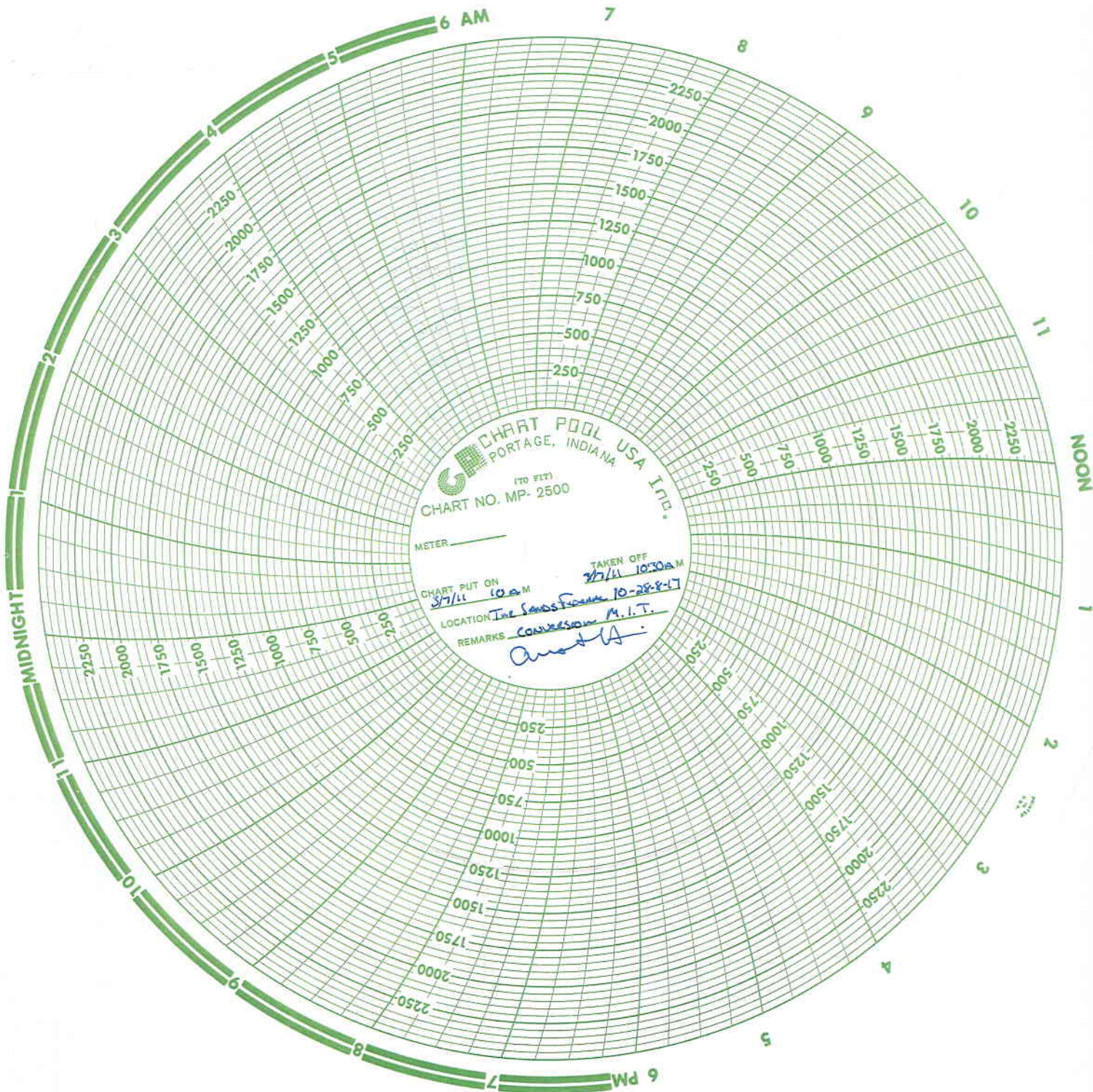
Does the annulus pressure build back up after the test ? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_





**Daily Activity Report****Format For Sundry****TAR SANDS 10-28-8-17****12/1/2010 To 4/28/2011****12/2/2010 Day: 1****gyro**

WWS #7 on 12/2/2010 - MIRU. TOH w/ rods. RU VES. Ran gyro from 6088 to surface. - MIRU WWS #7. Hot oiler pumped 40 BW down csg. Unseat rod pump. Flush rods w/ 30 BW. Soft seat rod pump. Fill tbg w/ 10 BW. Pressure test to 3000 psi. Unseat rod pump. TOH w/ rods. Flush rods w/ 40 BW on TOH. LD rod pump. RU VES run gyro from PBTD @ 6088' to surface. RD VES. SIWFN w/ 110 BWTR. - MIRU WWS #7. Hot oiler pumped 40 BW down csg. Unseat rod pump. Flush rods w/ 30 BW. Soft seat rod pump. Fill tbg w/ 10 BW. Pressure test to 3000 psi. Unseat rod pump. TOH w/ rods. Flush rods w/ 40 BW on TOH. LD rod pump. RU VES run gyro from PBTD @ 6088' to surface. RD VES. SIWFN w/ 110 BWTR.

**Daily Cost: \$0****Cumulative Cost: \$300****12/3/2010 Day: 2****gyro**

WWS #7 on 12/3/2010 - TIH w/ production rods. Pressure test. RDMOSU. Left well down, Host for 20 acre well to be drilled. 110 BWTR. - PU & RIH w/ rods as follows: CDI 2 1/2" X 1 1/2" X 12' X 16' RHAC, 6- 1 1/2" wt bars, 66- 3/4" guide rods (4 per), 64- 3/4" plain rods, 102- 3/4" guided rods (4 per), 1- 8', 1- 6', 1- 4', 1-2' X 3/4" pony rods, 1 1/2" X 22' polish rod. Fill tbg w/ 25 BW. Pressure test to 800 psi. RDMOSU. Left well down, Host for 20 acre well to be drilled. 110 BWTR. - PU & RIH w/ rods as follows: CDI 2 1/2" X 1 1/2" X 12' X 16' RHAC, 6- 1 1/2" wt bars, 66- 3/4" guide rods (4 per), 64- 3/4" plain rods, 102- 3/4" guided rods (4 per), 1- 8', 1- 6', 1- 4', 1-2' X 3/4" pony rods, 1 1/2" X 22' polish rod. Fill tbg w/ 25 BW. Pressure test to 800 psi. RDMOSU. Left well down, Host for 20 acre well to be drilled. 110 BWTR.

**Daily Cost: \$0****Cumulative Cost: \$600****2/9/2011 Day: 2****Conversion**

WWS #7 on 2/9/2011 - Finish TOH W/ production tbg. TIH W/ packer & injection string. Attempt to get solid pressure test on tbg W/ no success. Start TOH to isolate slow leak. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 12 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH. ND wellhead & release TA @ 5998'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 120 jts. SIFN. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 12 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH. ND wellhead & release TA @ 5998'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 120 jts. SIFN. - RU HO trk & flush tbg W/ 20 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 50 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 143 jts 2 7/8 8rd 6.5# M-50 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump



to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Unable to get a solid test. Retrieve standing valve. RU HO trk, pump 10 bbl pad & drop new standing valve. Fill & test tbg to 3000 psi. Bleed air & re-pressure several times. Still leaking off 400 psi in 60 minutes. Retrieve standing valve. TOH W/ 100 jts of tbg. SIFN. - RU HO trk & flush tbg W/ 20 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 50 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 143 jts 2 7/8 8rd 6.5# M-50 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Unable to get a solid test. Retrieve standing valve. RU HO trk, pump 10 bbl pad & drop new standing valve. Fill & test tbg to 3000 psi. Bleed air & re-pressure several times. Still leaking off 400 psi in 60 minutes. Retrieve standing valve. TOH W/ 100 jts of tbg. SIFN. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 12 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH. ND wellhead & release TA @ 5998'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 120 jts. SIFN. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 12 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH. ND wellhead & release TA @ 5998'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Out W/ 120 jts. SIFN. - RU HO trk & flush tbg W/ 20 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 50 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 143 jts 2 7/8 8rd 6.5# M-50 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Unable to get a solid test. Retrieve standing valve. RU HO trk, pump 10 bbl pad & drop new standing valve. Fill & test tbg to 3000 psi. Bleed air & re-pressure several times. Still leaking off 400 psi in 60 minutes. Retrieve standing valve. TOH W/ 100 jts of tbg. SIFN. - RU HO trk & flush tbg W/ 20 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 50 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 143 jts 2 7/8 8rd 6.5# M-50 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Unable to get a solid test. Retrieve standing valve. RU HO trk, pump 10 bbl pad & drop new standing valve. Fill & test tbg to 3000 psi. Bleed air & re-pressure several times. Still leaking off 400 psi in 60 minutes. Retrieve standing valve. TOH W/ 100 jts of tbg. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$37,682

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**2/10/2011 Day: 3**

**Conversion**

WWS #7 on 2/10/2011 - Isolated tbg leak & had solid final test. Set & test packer. RDMOSU. - RU HO trk & pump 5 bbl pad. Drop new standing valve & pump to SN. Pressure test tbg to 3000 psi. Con't with this regime until all tbg tests. Changed out 6 questionable tbg collars. Held final test for 1 solid hour. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4450', CE @ 4455' & EOT @ 4459'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Held solid for 1 hour. RDMOSU. - RU HO trk & pump 5 bbl pad. Drop new standing valve & pump to SN. Pressure test tbg to 3000 psi. Con't with this regime until all tbg tests. Changed out 6

questionable tbg collars. Held final test for 1 solid hour. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4450', CE @ 4455' & EOT @ 4459'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Held solid for 1 hour. RDMOSU.

**Daily Cost:** \$0

**Cumulative Cost:** \$41,810

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**3/8/2011 Day: 4****Conversion**

Rigless on 3/8/2011 - MIT on well - On 2/10/11 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Tar sands 10-28-8-17). On 3/7/11 the csg was pressured up to 1215 psi and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-08869 API# 43-013-32066 - On 2/10/11 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Tar sands 10-28-8-17). On 3/7/11 the csg was pressured up to 1215 psi and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-08869 API# 43-013-32066 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$67,130

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**Pertinent Files: [Go to File List](#)**





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

MAR 25 2011

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, UT 84052

**RECEIVED**  
**APR 06 2011**  
**DIV. OF OIL, GAS & MINING**

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20702-08869  
Well: Tar Sands Federal 10-28-8-17  
NWSE Sec.28 –T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32066

Dear Mr. Guinn:

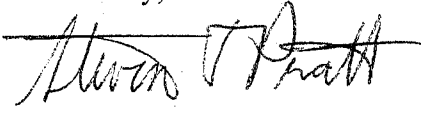
The U.S. Environmental Protection Agency (EPA), Region 8, has received Newfield Production Company's (Newfield) March 9, 2011, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20702-08869.

As of the date of this letter, Newfield is authorized to commence injection into the Tar Sands Federal 10-28-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,390 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required according to UIC Permit UT20702-08869. If Newfield seeks a higher MAIP than 1,390 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20702-08869.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,

  
for

Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Richard Jenks, Jr., Chairman  
Frances Poowegup, Vice-Chairwoman  
Ronald Wopsock, Councilman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company  
Denver, CO

SEARCHED  
SERIALIZED  
INDEXED  
FILED

U.S. DEPARTMENT OF THE INTERIOR

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELL

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
TAR SANDS FED 10-28-8-17

9. API NUMBER:  
4301332066

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 2025 FSL 1964 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN NWSE, 28, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will 03/30/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Put on Injection
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 11:30 AM on 03-30-2011.

EPA # UT20702-08869 API # 43-013-32066

RECEIVED

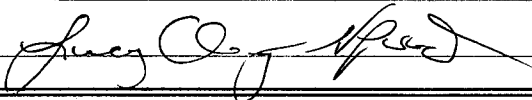
APR 11 2011

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE



DATE 03/30/2011

(This space for State use only)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELL**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-76241
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include area code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or GMBU
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2025 FSL 1964 FEL NWSE Section 28 T8S R17E		8. Well Name and No. TAR SANDS FED 10-28-8-17
		9. API Well No. 4301332066
		10. Field and Pool, or Exploratory Area GREATER MB UNIT
		11. County or Parish, State DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Put on Injection _____	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

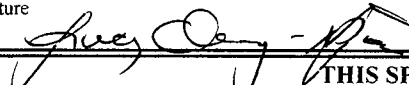
The above reference well was put on injection at 11:30 AM on 03-30-2011.

EPA # UT20702-08869 API # 43-013-32066

**RECEIVED**

**APR 11 2011**

**DIV. OF OIL, GAS & MINING**

I hereby certify that the foregoing is true and correct <i>Printed/ Typed</i> Lucy Chavez-Naupoto	Title Water Services Technician
Signature 	Date 03/30/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title Office	Date
--	-----------------	------

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

NOV 09 2011

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3-Box 3630  
Myton, Utah 84502

**RECEIVED**

**NOV 21 2011**

**DIV. OF OIL, GAS & MINING**

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Continue Injection  
EPA UIC Permit UT20702-08869  
Well: Tar Sands Federal 10-28-8-17  
NWNE Sec. 28-T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32066

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 received the results of the September 2, 2011, Radioactive Tracer Survey for the Tar Sands Federal 10-28-8-17 well. The EPA determined the test demonstrates the presence of adequate cement to prevent the upward migration of injection fluids from the injection zone at the Maximum Allowable Injection Pressure of 1,390 psig.

As of the date of this letter, the EPA hereby authorizes continued injection into the Tar Sands Federal 10-28-8-17 well under the terms and conditions of UIC Permit UT20702-08869.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test that measures the formation parting pressure and determines the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. A current copy of the EPA guidelines for running and interpreting SRTs will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS conducted at the higher MAIP is required.


As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Nathan Wiser at the following address, referencing the well name and UIC Permit number on all correspondence:

Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, CO 80202-1129

You may reach Ms. Roberts by telephone at (303) 312-7056 or (800) 227-8927, extension 312-7056. Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20702-08869.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,

  
for Stephen S. Tuber

Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg  
Regulatory Analyst  
Newfield Production Company

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-76241
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 10-28-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2025 FSL 1964 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 28 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013320660000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/26/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="5 YR MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 01/26/2016 the casing was pressured up to 1121 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1419 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08869		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> February 01, 2016		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/27/2016	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 1 / 26 / 2016Test conducted by: Shannon Hazenby

Others present: \_\_\_\_\_

Well Name: <u>Tar Sands Federal 10-28-8-17</u> Type: ER SWD		Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>10-28-8-17</u> Sec: <u>28</u> T <u>8</u> N/S R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>ut</u>
Operator: <u>Shannon Hazenby</u>		
Last MIT: <u>  /  /  </u>	Maximum Allowable Pressure: <u>1474</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
 Initial test for permit? ☐ Yes ☐ No  
 Test after well rework? ☐ Yes ☐ No  
 Well injecting during test? ☒ Yes ☐ No If Yes, rate: 41 bpd

Pre-test casing/tubing annulus pressure: 0/1420 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE</b>		
Initial Pressure	<u>1420</u> psig	psig	psig	psig
End of test pressure	<u>1419</u> psig	psig	psig	psig
<b>CASING / TUBING</b>		<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1124.2</u> psig	psig	psig	psig
5 minutes	<u>1125.2</u> psig	psig	psig	psig
10 minutes	<u>1125.0</u> psig	psig	psig	psig
15 minutes	<u>1124.4</u> psig	psig	psig	psig
20 minutes	<u>1123.4</u> psig	psig	psig	psig
25 minutes	<u>1122.2</u> psig	psig	psig	psig
30 minutes	<u>1120.8</u> psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

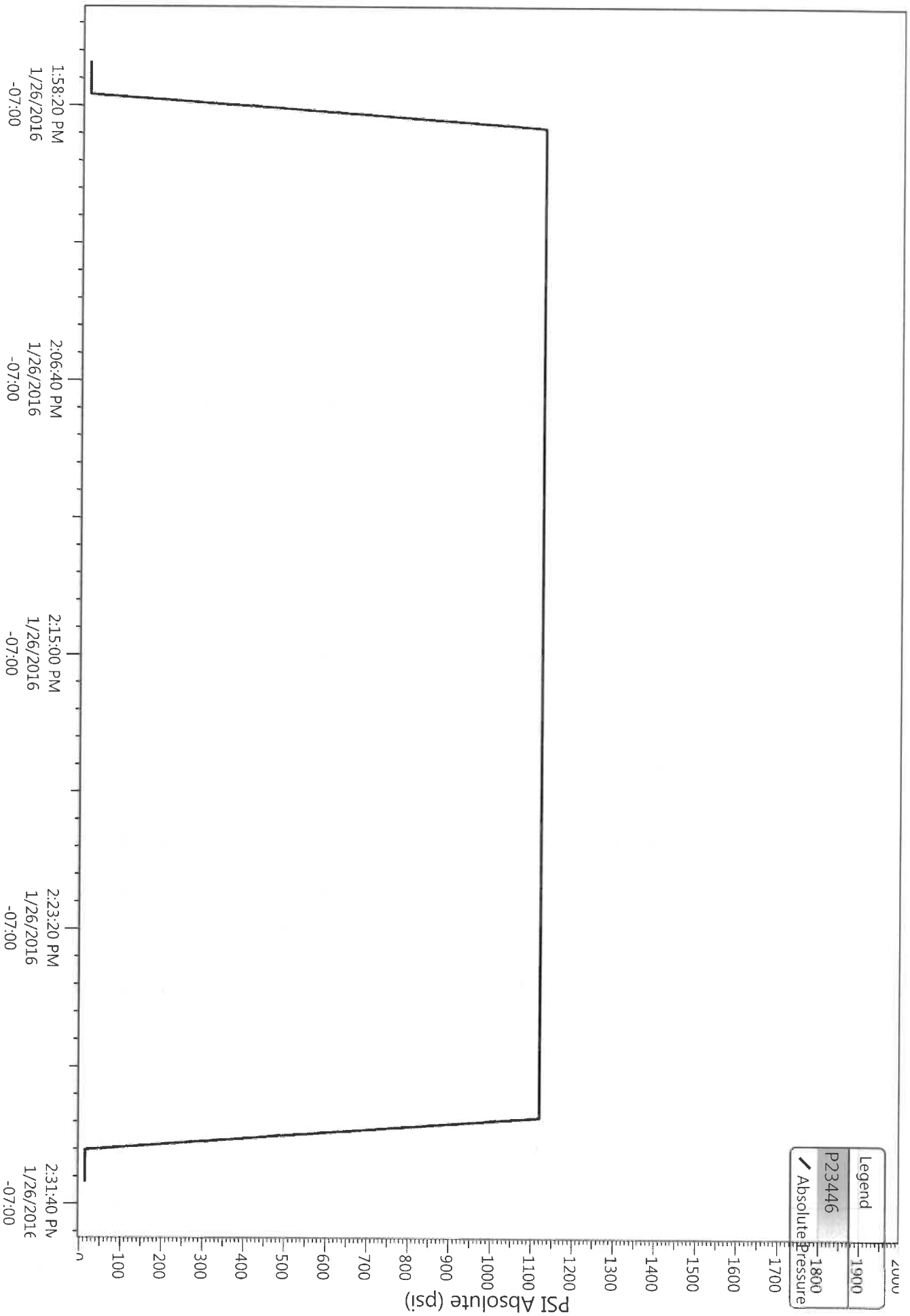
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



10-28-8-17 5 yr MIT  
1/26/2016 1:56:34 PM



# TAR SANDS FED. 10-28-8-17

Spud Date: 06/24/98  
Put on Production: 08/19/98  
GI: 5205' KB: 5217'

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts.  
DEPTH LANDED: 288.00' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1-120 sxs Class "G" cmt. est 6 bbls cmt to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts. (6128')  
DEPTH LANDED: 6139' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 375 sxs Prem. Lite II mixed & 400 sxs Class C  
CEMENT TOP: 970'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 143 jts. (4438.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4450.3' KB  
CF @ 4454.72'  
TOTAL STRING LENGTH: EOT @ 4459' KB

### FRAC JOB

07/24/98	5906-5927'	<b>Frac C1 sands as follows:</b> 109021# 20/40 sand in 565 bbls Viking I-25 frac fluid. Treated @ avg press of 1300 psi w/avg rate of 28.2 BPM. ISIP 1750 psi. Calc flush: 5904 gal. Actual flush: 5817 gal.
07/27/98	5565-5582'	<b>Frac A sands as follows:</b> 121500# 20/40 sand in 586 bbl Viking I-25 frac fluid. Treated @ avg press of 1890 psi w/avg rate of 30.3 BPM. ISIP 1980 psi. Calc flush: 5563 gal. Actual flush: 5460 gal.
07/31/98	5417-5426'	<b>Frac B sands as follows:</b> 111800# 20/40 sand in 565 bbls Viking I-25 frac fluid. Treated @ avg press of 1650 psi w/avg rate of 24 BPM. With 7# sand @ perfs, slurry pumps began pumping extremely rough. Maximum rate able to pump was reduced to 19 bpm. Pressure began rising quickly. 10pgg sand was reached @ blender before cutting sand flushed 20 bbls before screenout occurred w/9# sand on perfs. Est. 76,1000# sand on formation, 29,300# sand left in casing.
8/1/98	5207-5220'	<b>Frac C sands as follows:</b> 105400# 20/40 sand in 430 bbls Viking I-25 frac fluid. Treated @ ave press of 1650 psi w/ave rate of 24 BPM.
8/3/98	5038-5106'	<b>Frac D sands as follows:</b> 94700# 20/40 sand in 495 bbls Viking I-25 frac fluid. Treated @ avg press of 2050 psi w/avg rate of 30.5 BPM. ISIP 2920 psi. Calc flush: 5205 gal. Actual flush: 4939 gal.
8/5/98	4502-4598'	<b>Frac GB sands as follows:</b> 118,000# 20/40 sand in 569 bbls Viking I-25 frac fluid. Treated @ avg press of 1750 psi w/avg rate of 30.6 BPM. ISIP 2160 psi. Calc flush: 5036 gal. Actual flush: 4410 gal.
04/16/02		<b>Pump Change.</b> Updated rod & tubing detail
07/03/02		<b>Pump Change.</b> Updated rod & tubing detail
04/16/03		<b>Pump Change.</b> Updated rod & tubing detail
02/25/05		<b>Pump Change.</b> Updated rod & tubing detail
08/17/07		<b>Tubing Leak.</b> Updated rod & tubing detail
2/2/09		<b>Pump Change.</b> Updated rod & tubing details
2/9/11		<b>Convert to Injection well.</b>
3/7/11		<b>Conversion MIT finalized - update tbg detail</b>

Packer @ 4455'  
EOT @ 4459'

4502-4511'  
4589-4598'  
5038-5040'  
5048-5052'  
5103-5106'  
5207-5220'  
5417-5426'  
5565-5582'  
5906-5917'  
5922-5927'

Top of Fill @ 5944'  
PBID @ 6058'  
SHOE @ 6140'  
TD @ 6150'

### PERFORATION RECORD

07/23/98	5906-5917'	4 JSPP	44 holes
07/23/98	5922-5927'	4 JSPP	20 holes
07/25/98	5565-5582'	4 JSPP	68 holes
07/29/98	5417-5426'	4 JSPP	36 holes
07/30/98	5207-5220'	4 JSPP	52 holes
08/01/98	5038-5040'	4 JSPP	08 holes
08/01/98	5048-5052'	4 JSPP	16 holes
08/01/98	5103-5106'	4 JSPP	12 holes
08/04/98	4502-4511'	4 JSPP	36 holes
08/04/98	4589-4598'	4 JSPP	36 holes

**NEWFIELD**

**TAR SANDS FED. 10-28-8-17**

2025' FSL & 1964' FEL

NW/SE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32066; Lease # UTU-76241